Claims

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- 1. A method of preparing a selenium yeast product for use in food, dietary supplements, or drugs, whereby said yeast is cultivated on a minimal medium under aerobic conditions, characterised by the steps of:
- a) cultivating the yeast, which includes
- i) nutrients being fed to the yeast during the cultivation to an extent corre sponding to the consumption of said nutrients in the yeast;
 - ii) glucose and/or maltose being the sole sources of carbon in the feeding medium;
- iii) the concentration of ethanol during the cultivation not exceeding 1%, preferably 0.5% and most preferably 0.2%;
 - iv) the pH value during the cultivation being maintained at between 4.0 and 6.0, preferably between 4.4 and 5.7, most preferably between 4.7 and 5.4, such as 5.0; and
 - v) an aqueous salt of selenium being admixed to the feeding medium in an amount corresponding to between 1000 and 1500 ppm of selenium, calculated on dry matter in the yeast;
 - b) isolating the yeast obtained in step (a).
 - 2. A method according to claim 1, characterised by the isolation including harvest by way of centrifuging or filtration.
 - 3. A method according to claim 1, characterised by further including the steps of:

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- c) washing the yeast cells from step (b),
- d) heat treating the yeast cells from step (c), and
- e) optionally drying the product from step (d).
- 4. A method according to any of claims 1 to 3, characterised by the minimal medium being composed of raw materials of a pharmaceutical quality.
- 5. A method according to any of claims 1 to 4, characterised by the yeast including a species of the genus Saccharomycetaceae, preferably Saccharomyces cerevisiae, Saccharomyces boulardii sequela and/or Saccharomyces torula.
- 15 6. A method according to claim 5, characterised by the yeast being Saccharomy-ces cerevisiae.
 - 7. A selenium yeast product for use in food, dietary supplements or drugs, characterised by
 - a) a content of organic selenium compounds corresponding to a range of between 1000 and 1600 ppm of selenium, preferably between 1100 ppm and 1500 ppm of selenium, most preferably between 1200 ppm and 1400 ppm of selenium,
- b) the content of l-selenomethionine constantly constituting at least 55% of the total selenium content, and the content of selenium in inorganic selenium compounds not exceeding 1% of the total selenium content,
- c) the selenium yeast product being obtainable by cultivating a yeast culture seeded with a pure culture of a Saccharomyces sp., preferably S. cerevisiae, S. boulardii sequela, and/or S. torula, by adding sources of carbon, nitrogen and selenium in

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amounts per time unit corresponding to the amount which can be absorbed in the yeast during a predetermined time period, and the cultivation taking place in minimal medium exclusively including purified, homogeneously defined nutrients in form of raw materials which are described in pharmacopoeia.

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- 8. A selenium yeast product according to claim 7, characterised by being obtainable by the method according to any of claims 1 to 6.
- 9. A use of the selenium yeast product according to claim 7 or 8 for preparing a foodproduct.
 - 10. A use of the selenium yeast product according to claim 7 or 8 for preparing a dietary supplement.
- 15 11. A use of the selenium yeast product according to claim 7 or 8 for preparing a drug.